Donaldsonville, LA to the Gulf of Mexico Feasibility Study

LA FOURCHE BASIN LEVEE DISTRICT
STATE OF LOUISIANA
UNION JUSTICE CONFIDENCE
VACHERIE, LA.

LOUISIANA'S ON THE MOVE . . .
DOTD
BUILDS THE WAY

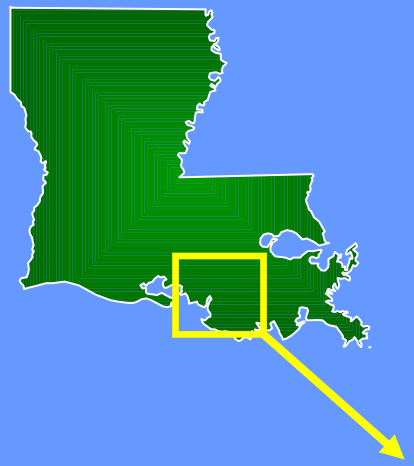
US Army Corps of Engineers®
New Orleans District

Donaldsonville, LA to the Gulf of Mexico

Study Sponsors

Lafourche Basin Levee District
and the
Louisiana Department of Transportation and Development

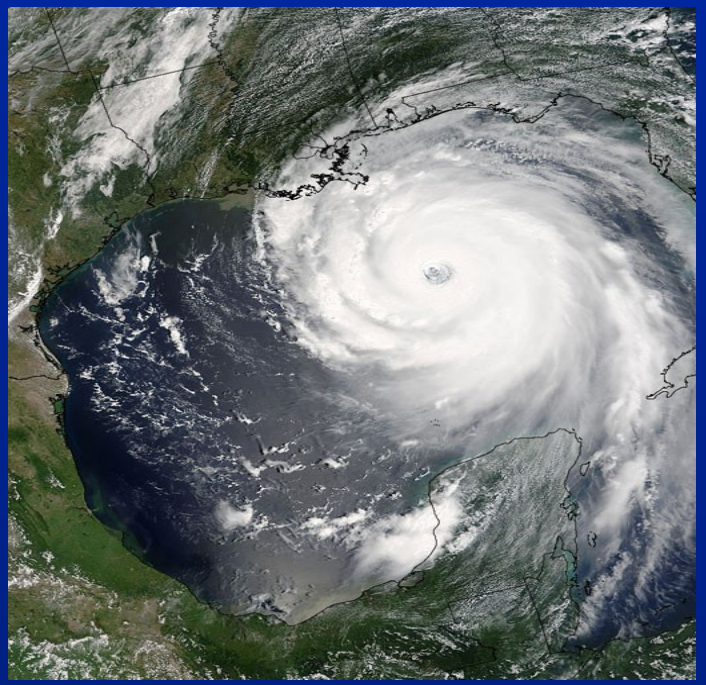
Donaldsonville, Louisiana to the Gulf of Mexico



Corps of Engineers
New Orleans District

Study Objectives

- **Hurricane Protection**
- **Interior Drainage**
- **Eco-system Restoration**



Donaldsonville, LA to the Gulf of Mexico

Current Levee Alignments Being Studied

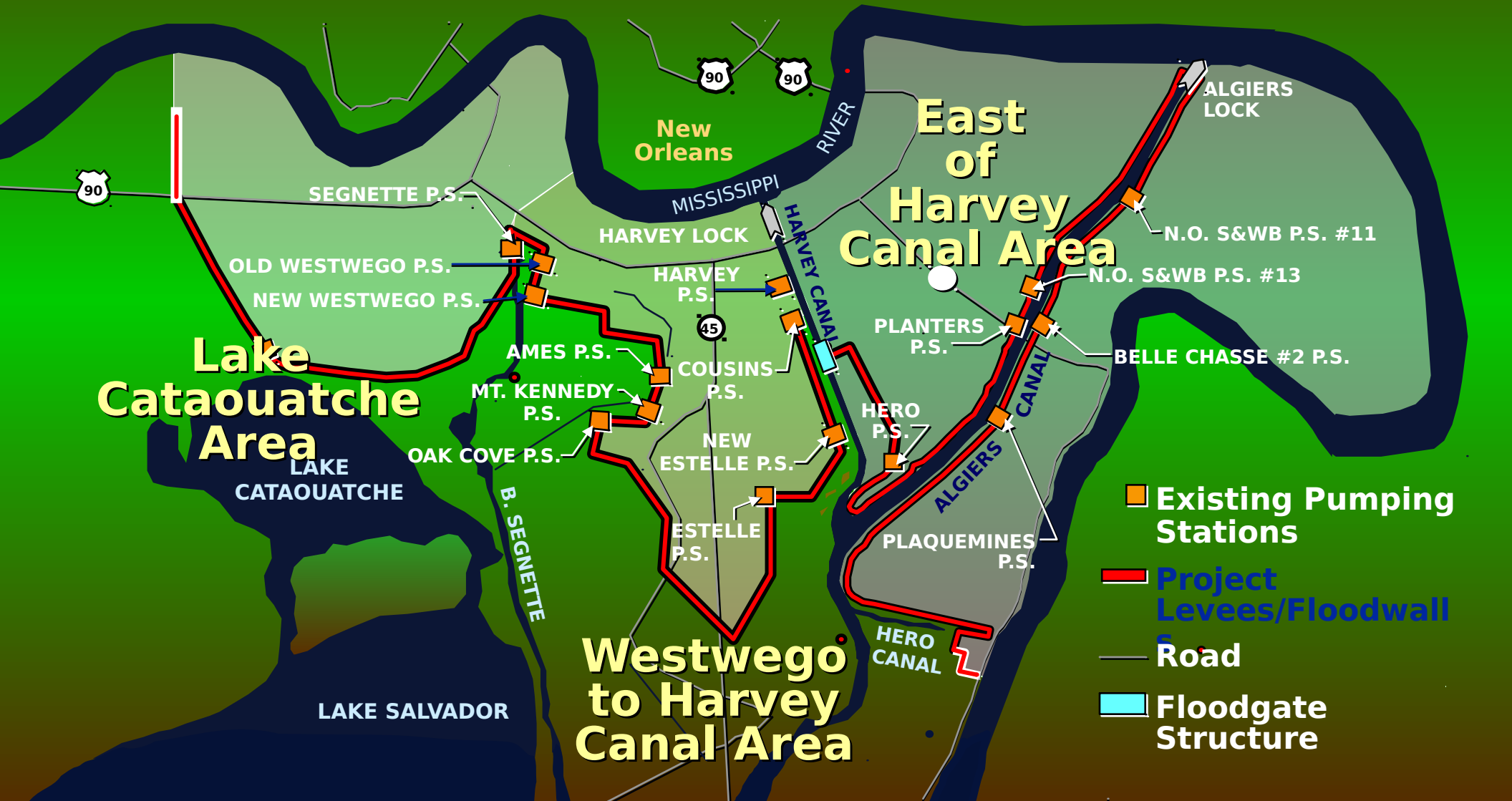
Donaldsonville, LA to the Gulf of Mexico
Highway 90 Levee Alignment
Donaldsonville
Mississippi
Laplace
St. John Parish
Metairie
River
St. James Parish
Lac Des Allemands
Luling
Jefferson Parish
Lake Cataouatche
Des Allemands
Thibodaux
St. Charles Parish
Bayou
Lafourche
Lake Salvador
Terrebonne Parish
Lafourche Parish
Houma
Larose
GIWW
GIWW

Donaldsonville, LA to the Gulf of Mexico
Bayou Lafourche Levee Alignment
Donaldsonville
Mississippi
Laplace
St. John Parish
St. James Parish
Lac Des Allemands
River
Luling
Metairie
West Bank HP Project
Jefferson Parish
Lake Cataouatche
Des Allemands
Thibodaux
Lafourche Parish
St. Charles Parish
Bayou Lafourche
Lake Salvador
Terrebonne Parish
Houma
GIWW
GIWW
Larose

Donaldsonville, LA to the Gulf of Mexico
Pipeline Canal Levee Alignment
Donaldsonville
Mississippi
Laplace
St. John Parish
Metairie
River
St. James Parish
Lac Des Allemands
Luling
Jefferson Parish
Lake Cataouatche
Des Allemands
Thibodaux
St. Charles Parish
Bayou
Lafourche
Lake Salvador
Terrebonne Parish
Lafourche Parish
Houma
Larose
GIWW
GIWW

Donaldsonville, LA to the Gulf of Mexico
GIWW Levee Alignment
Donaldsonville
Mississippi
Laplace
St. John Parish
St. James Parish
Lac Des Allemands
River
Luling
Metairie
West Bank HP Project
Jefferson Parish
Lake Cataouatche
St. Charles Parish
Thibodaux
Lafourche Parish
Bayou Lafourche
Lake Salvador
GIWW
Terrebonne Parish
Houma
GIWW
GIWW
Larose

West Bank & Vicinity, New Orleans, LA, Hurricane Protection Project



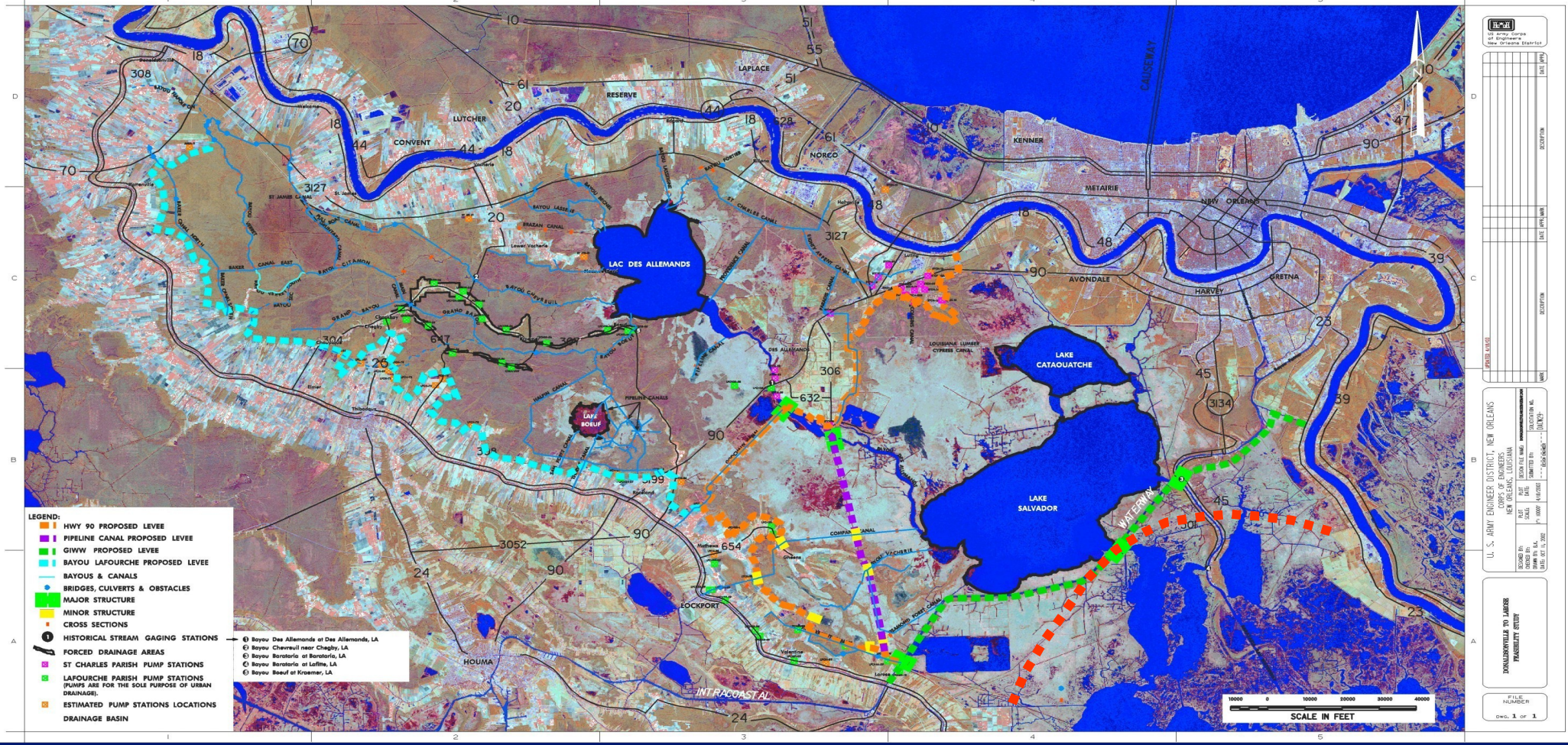
Donaldsonville, LA to the Gulf of Mexico

Levee Alignment Lengths
(miles)

Alignment	Length	Reduction
Highway 90	52.9	0
Pipeline Canal	34.5	18.4
GIWW	27.2	25.7
Modified GIWW	22.7	30.2

Donaldsonville, LA to the Gulf of Mexico
Modified GIWW Hurricane Levee Alignment
Donaldsonville
Mississippi
Laplace
St. John Parish
St. James Parish
Lac Des Allemands
River
Metairie
West Bank HP Project
Luling
Jefferson Parish
Lake Cataouatche
Thibodaux
Lafourche Parish
St. Charles Parish
Bayou Lafourche
Lake Salvador
H
H
Terrebonne Parish
Houma
GIWW
GIWW
GIWW
Larose

Donaldsonville, LA to the Gulf of Mexico
Hurricane Levee Alignments



Donaldsonville, LA to the Gulf of Mexico

Gulf Intracoastal Waterway (GIWW) Levee Alignment

Advantages:

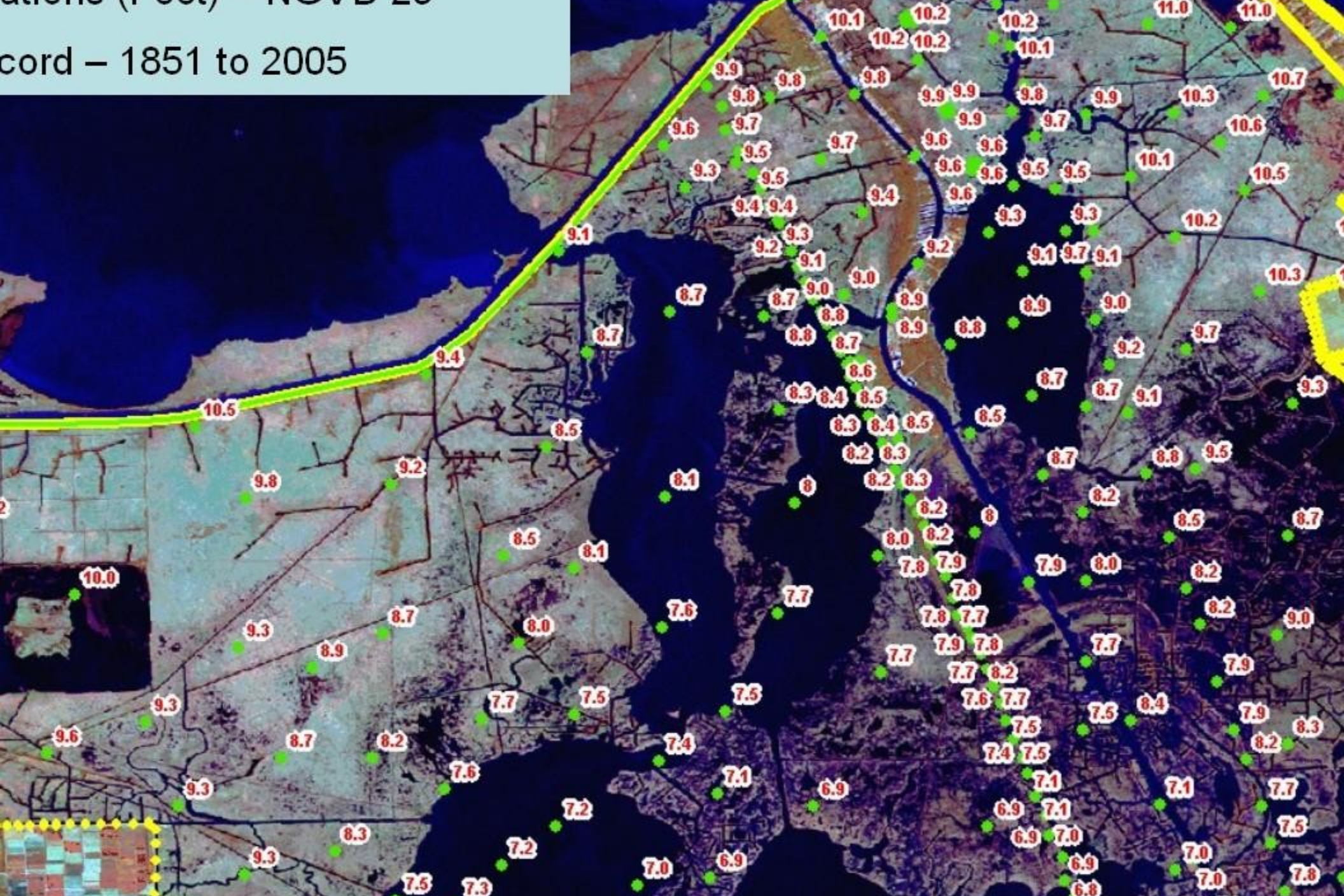
- Protection for the population and industries in the west bank of Miss. River up to Donaldsonville and west to Bayou Lafourche
- Shortest alignment (smaller front line for hurricane attack)
- Primary line of protection - existing levees become secondary protection.
- Provides vast storage area to collect rainfall, wave splashing, overtopping, or breach
- Reduces sharp bends, v-shapes, and pockets
- Optimum alignment for Cat 5 protection
- Fewer landowners to impact
- Waterway access to barge building materials and equipment, if required

Donaldsonville, LA to the Gulf of Mexico

Gulf Intracoastal Waterway (GIWW) Levee Alignment

Disadvantages:

- Will require higher levee, since it is closest alignment to Gulf
- Wider levees may be required in areas of weak foundation


ations (Feet) – NGVD 29
cord – 1851 to 2005

Levee CL
Storm Surge
2005/09/14

Donaldsonville, LA to the Gulf of Mexico

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Study Website:
http://www.mvn.usace.army.mil/pd/projectsList/
Below the List of Projects
click on “Mississippi River & Tributaries (MRT)”
click on “Donaldsonville to the Gulf of Mexico”